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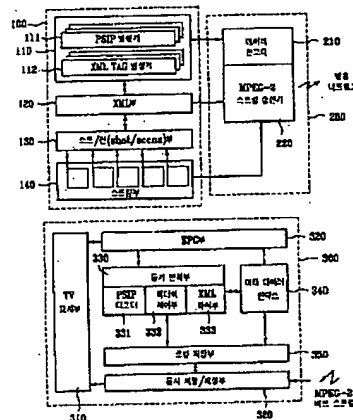
(71)Applicant: LG ELECTRONICS INC.
 (72)Inventor: KANG, BAE GEUN

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(54) SYNCHRONIZER BETWEEN AUDIO/VIDEO AND DATA WHILE RECORDING AND PLAYING BACK BROADCASTING PROGRAM

(57) Abstract:

PURPOSE: A synchronizer between an A/V (Audio/Video) and data while recording and playing back a broadcasting program is provided to enable a viewer to control VCR(Video Cartridge Recorder) operation selectively through a content annotation of a recorded MPEG(Moving Picture Experts Group) stream by using an XML(eXtended Markup Language) TAG as a content annotation technique for a video index.



CONSTITUTION: A content production/synchronization unit(100) produces data to synchronize to a program to broadcast or a live broadcasting program in real time. A data transmission unit(200) combines XML TAG information output from the content production/synchronization unit(100) with the broadcasting program to transmit together in an MPEG-2 transport stream format. A receiving system unit(300) receives the broadcasting program transmitted from the data transmission unit(200) to perform a recording and a playing back operation at the same time, and interprets the XML TAG synchronized to a specific section through a pass for data broadcasting to regenerate information which a user needs for a video index.

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